

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-22. (Canceled)

22. (Currently Amended) ~~Brazing~~ A brazing method for, through melting of a connecting agent then solidification of ~~this the~~ connecting agent, achieving a mechanical and electrical connection between ~~at least one a~~ first face, of a first piece of an electro-technical device, and ~~at least one a~~ second face, of a second piece of the electro-technical device, ~~said first piece and said second piece being constituents of an electro-technical device, the method comprising:~~

_____ connecting the first piece and the second piece with the connecting agent by locally heating the second piece with a predetermined amount of energy for a first duration of time to only melt the connecting agent, wherein:

_____ the first piece being is made starting from:

_____ at least one a first metallic material in the form of a foil of a given thickness, ~~this the~~ first metallic material comprising a first main constituent, ~~referred to as the first main constituent, said the~~ first metallic material having a defined first temperature of complete solidification temperature(solidus), ~~referred to as the first complete solidification temperature;~~ and

_____ at least one a dielectric interfacing material,

_____ the second piece, on the one hand, having;

_____ has in a direction substantially orthogonal to the second face, a dimension appreciably greater than the thickness of the ~~first metallic material in foil; form making up the first piece, and, on the other hand, being~~

_____ is composed of a second metallic material, referred to as the ~~second metallic material~~, comprising a second main constituent, referred to as the ~~second main constituent~~, the second main constituent at least substantially similar to the first main constituent of the first metallic material, said ~~the~~ second metallic material likewise having a second temperature of complete solidification temperature (solidus), also defined, referred to as the ~~second temperature of complete solidification~~,; and

~~this brazing method being characterised in that used is~~ choosing a connecting agent made up ~~beforehand of a~~ third metallic material which, referred to as the ~~third metallic material~~, that comprises a third main constituent, referred to as the ~~third main constituent~~, at least substantially similar to the first main constituent, ~~this the~~ third metallic material having ~~however a temperature of complete melting temperature (liquidus) which that~~ is lower, ~~on the one hand,~~ than the first complete solidification temperature; and, ~~on the other hand,~~ lower than the second complete solidification temperature.

23. (Currently Amended) The Bbrazing method according to claim 22, ~~characterised in that~~ wherein:

_____ ~~chosen is a~~ the connecting agent having has a defined third complete solidification temperature, the method further comprising:

~~—forming with the connecting agent at least one a~~ fusible element from the connecting agent that is constituted able configured to be placed in contact with ~~at least one of the faces which are the first face, of the first piece, and the second face, of the second piece, and~~

~~—cooling, after having placed the fusible element in contact, at one and the same time, with the first face, of the first piece, and the second face, of the second piece, the second piece is heated locally with a predetermined amount of energy, and this for a~~ the first duration, likewise predetermined, so as to generate firstly solely the melting of the connecting

~~agent, and then secondly the cooling of said~~the connecting agent to ~~a~~the defined temperature lower than ~~the~~a defined third complete solidification temperature.'

24. (Currently Amended) ~~Brazing~~The brazing method according to claim 22, characterised in that ~~the step of~~further comprising:

- heating of the second piece is ~~begun~~ instantaneously starting from an defined ambient temperature, without ~~this~~the second piece having to have been heated beforehand in order to bring it to a temperature close to the temperature for complete melting (liquidus) of the connecting agent.

25. (Currently Amended) ~~Brazing~~The brazing method according to claim 22, characterised in that ~~at the end~~further comprising:

 ~~of the step during which the second piece is heated for a~~controlledly cooling,
after the predetermined first duration, one proceeds to a controlled cooling of saidthe second piece for a second duration so as to remove the energy related to the heating, ~~and this in a~~
~~second predetermined duration so as~~ and to prevent any thermal degradation of ~~said~~the first piece and the second pieces.

26. (Currently Amended) ~~Brazing~~The brazing method according to claim 22, characterised in that it ~~uses~~wherein:

~~— a first metallic material having a main constituent, referred to as the first main constituent, which comprises is~~ of aluminiumaluminum,

~~— a second metallic material having a main constituent, referred to as the second main constituent, which is of~~ comprises aluminiumaluminum, and

~~— a third metallic material consisting of an alloy with a main constituent, referred to as the third main constituent, which is of~~ comprises aluminiumaluminum.

27. (Currently Amended) ~~The B~~brazing method according to claim 22, characterised in that ~~used is a first metallic material and a second metallic material whose~~

~~complete solidification temperatures, referred to as~~wherein the first complete solidification temperature and the second complete solidification temperature, are ~~at least~~ substantially similar to one another.

28. (Currently Amended) ~~Brazing~~The brazing method according to claim 22, characterised in that used is a first metallic material and a second metallic material whose ~~complete solidification temperatures, referred to as~~wherein the first complete solidification temperature and the second complete solidification temperature, are different from one another.

29. (Currently Amended) ~~The B~~The brazing method according to claim 22, characterised in that it ~~uses~~wherein:

—a the first metallic material comprises aluminum;

and a ~~the~~ second metallic material ~~consisting of~~comprises

~~aluminium~~aluminum; and

—~~having a complete solidification temperature (solidus), referred to as the first complete solidification temperature which is at least equal to six hundred thirty five degrees Celsius (635°C);~~

—a the connecting agent ~~consisting~~consists of an alloy of ~~aluminium~~aluminum and of silicon with a percentage by mass of silicon ~~which ranges between seven percent and thirteen percent (7% and 13%)~~ ~~silicon~~ and having a complete melting (~~liquidus~~) temperature ~~which that~~ is at most equal to six hundred thirteen degrees Celsius (613°).

30. (Currently Amended) ~~The B~~The brazing method according to claim 22, wherein:
characterised in that it uses a ~~the~~ first metallic material and a ~~the~~ second metallic material ~~comprising~~comprise ~~aluminium~~aluminum containing at least one of the ~~elements which are~~ silicon, magnesium, manganese, copper, and iron, with percentages by mass ~~which that~~ are such that ~~this the~~ the first metallic material has a complete solidification

temperature (solidus), referred to as the first complete solidification temperature, which is at least equal to six hundred thirty five degrees Celsius (635°C).

31. (Currently Amended) ~~The~~ Brazing method according to claim 22, characterised in that it uses wherein:

~~_____ at the first metallic material and a the second metallic material comprising~~
~~comprise aluminium~~ aluminum containing, in particular, silicon, with a percentage by mass of silicon which ranges between zero point twenty five and zero point fifty (0.25 and 0.50;) and having a complete solidification temperature (solidus), referred to as
 _____ the first complete solidification temperature, which is at least equal to six hundred thirty five degrees Celsius (635°C).

32. (Currently Amended) ~~Brazing~~ The brazing method according to claim 22, characterised in that it uses wherein:

~~at least one~~ _____ the first piece consisting of at least comprises a group of two electrodes
 separated by ~~at least one an~~ element of the dielectric interfacing material;

_____ at least one of ~~these the~~ electrodes being is made starting from a foil of a the
foil of the first metallic material of having a very slight thickness;

_____ the grouping of ~~said the~~ electrodes being is achieved such that at least one of ~~these the~~ electrodes has a free edge which that extends while thus to forming the first face of the first piece;

— _____ at least one other piece, forming an electrical terminal, hereinafter referred to as the second piece forms an electric terminal, intended configured to be connected mechanically and electrically to one of the electrodes of the first piece, and i.e. to one of the electrodes which it comprises; and

_____ ~~this the~~ second piece being made up such that it has has a the second face able
configured to be substantially superimposed on the first face of the first piece.

33. (Currently Amended) ~~Brazing~~ The brazing method according to ~~claim 22~~ claim 25, characterised in that to heat locally the second piece with a predetermined amount of energy, and this for a first duration, likewise predetermined, so as to generate firstly solely the melting of the connecting agent of the fusible element, then, secondly, the cooling of said connecting agent, wherein an induction heating device is used to heat and then controlledly cool the second piece, the induction device having an induction coil and an apparatus- for supplying the induction coil with power, of a determined frequency.

34. (Currently Amended) ~~The B~~ The brazing method according to ~~claim 22~~ claim 25, characterised in that to heat locally the second piece with a predetermined amount of energy, and this for a first duration, likewise predetermined, so as to generate firstly solely the melting of the connecting agent of the fusible element, then, secondly, the cooling of said connecting agent, wherein a heating device ~~is used~~ employing an electromagnetic field is used to heat and then controlledly cool the second piece.

35. (Currently Amended) ~~Brazing~~ The brazing method according to claim 33, characterised in that ~~when heating the second piece,~~ further comprising:
_____ rotating the second piece is set in rotation on the induction coil in such a way as to make the heating uniform.

36. (Currently Amended) ~~Brazing~~ The brazing method according to claim 22, characterised in that ~~when~~ further comprising:
_____ heating the second piece forcing the first piece is forced against the second piece during heating.

37. (Currently Amended) ~~Electro~~ An electro-technical devices, comprising at least ~~one~~ the first piece and at least ~~one~~ the second piece between which a mechanical and electrical connection is achieved according to the brazing method of claim 22.

38. (Currently Amended) The electro-technical device of claim 37, wherein the second piece defines a housing.

39. (Currently Amended) The electro-technical device of claim 38, wherein the first piece is a capacitor electrode.

40. (Currently Amended) The electro-technical device of claim 38, wherein the first piece is a battery electrode.

41. (Currently Amended) The electro-technical device, of claim 39, wherein the first piece comprises carbon particles.

42. (Currently Amended) The electro-technical device of claim 39, wherein the capacitor electrode is a double-layer capacitor electrode.